

Serial No.: 09/729,968
Group Art Unit: 2675

IN THE CLAIMS:

All claims with their current status, inclusive of current amendments, are presented below.

Claims 1-8 (Cancelled).

9. (Previously amended) Apparatus for converting symbols formed by tracking stylus movements in space to characters, comprising:
- a stylus comprising:
 - at least one accelerometer for generating at least one first acceleration sequence by tracking movements of said stylus in space or upon a surface;
 - memory means for storing a collection of reference acceleration sequences, wherein the reference acceleration sequences correspond to at least one set of symbols, wherein the symbols correspond to a character set, at least one member of the character set being different in shape from at least one member of the at least one set of symbols;
 - a processor for comparing at least one first acceleration sequence generated by stylus movement to a set of reference acceleration sequences to identify a symbol and for converting the symbol to its corresponding character, wherein the shape of the character can be different from the shape of the symbol;
 - transceiver means or a combination of a transmitter and receiver means for establishing a wireless two-way connection with a second device and transmitting to the second device at least one character resulting from generating at least one first acceleration sequence when a wireless connection has been established therewith.

10. (Previously amended) The apparatus of claim 9, wherein said communication means complies with BlueTooth specifications.

11. (Fourth amendment) The apparatus of claim 9, wherein said transceiver ~~transceiver~~ means complies with BlueTooth specifications.

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12. (Previously amended) The apparatus of claim 9, further comprising an activation system.

13. (Previously amended) The apparatus of claim 12, wherein said activation system comprises a button.

14. (Previously amended) The apparatus of claim 12, wherein upon activation of said activation system, at least one of said at least one accelerometer is activated.

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15. (Previously amended) The apparatus of claim 12, wherein upon activation of said activation system, said processor is activated.

16-18. (Cancelled).

19. (Previously amended) The apparatus of claim 9, further comprising at least one set of reference acceleration sequences stored in said memory.

20. (Previously added) The apparatus of claim 9, further comprising at least one set of characters stored in said memory, said set of characters corresponding to at least one set of acceleration sequences.

21. (Previously added) The apparatus of claim 20, further comprising at least one set of reference acceleration sequences stored in said memory, at least a portion of said set of reference acceleration sequences corresponding to said at least one set of characters.

22. (Previously added) A method for converting symbols formed by tracking stylus movements in space or upon a surface to characters, comprising: keeping a collection of reference data sequences, said reference data sequences

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corresponding to at least one set of symbols, wherein said symbols correspond to a character set, at least one member of said character set being different in shape from at least one member of said at least one set of symbols; on activation of said stylus, establishing a two-way wireless connection with a second device using a transceiver means or a combination of a transmitter and receiver means; tracking movements of said stylus in space or upon a surface using accelerometers and generating sensor data sequences; matching said sensor data sequences to said reference data sequences and identifying a character corresponding to said reference data sequences; on identification of a character, transmitting identified character to said second device, displaying said character on said second device.

23. (new – Amended version of former claim 1) A unitary apparatus for converting symbols formed by tracking stylus movements in space or upon a surface to characters, comprising:

a stylus comprising:

at least one accelerometer for generating at least one first acceleration sequence by tracking movements of said stylus in space or upon a surface;

memory means for storing a collection of reference data sequences, wherein said reference data sequences correspond to at least one set of graffiti symbols, wherein the graffiti symbols correspond to a character set, at least one member of the character set being different in shape from at least one member of the at least one set of graffiti symbols;

a processor for comparing at least one first acceleration sequence generated by stylus movement to a set of reference data sequences to identify a graffiti symbol, wherein said processor translates graffiti symbols to characters, wherein the shape of a character can be different from the shape of a graffiti symbol;

a radio communication device conforming with Bluetooth specifications for establishing a two-way wireless connection with a second device;

a switch,

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wherein the components of said stylus remain in a dormant state until said switch is activated, and wherein on activation of said switch:

said stylus turns on,

said radio communication device can initiate establishment of a wireless Bluetooth connection with a second device when said stylus is on and a compatible second device is in range,

wherein said communication device transmits to a second device at least one character resulting from generating at least one first acceleration sequence when a wireless connection is established with a second device.

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24. (new) The Apparatus of claim 9, further comprising:
a switch wherein upon activation of said switch said stylus turns on and said transceiver means or a combination of a transmitter and receiver means tries to establish a wireless two-way connection with a second device.

25. (new) The Apparatus of claim 9 whereby said communication means is conformant to Bluetooth specification.

26. (new) The apparatus of claim 9, further comprising a second device, said second device having a second transceiver compliant with Bluetooth specifications, said second device being independent of said stylus and capable of establishing wireless communication with said transceiver in said stylus.

27. (new) The method of claim 22, further comprising the step of displaying said character on said second device.
